



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/810,189	03/26/2004	Mark Grayson	062891.1216	8023
5073	7590	04/05/2007		
BAKER BOTTS L.L.P. 2001 ROSS AVENUE SUITE 600 DALLAS, TX 75201-2980			EXAMINER LY, ANH VU H	
			ART UNIT	PAPER NUMBER
			2616	

SHORTENED STATUTORY PERIOD OF RESPONSE	NOTIFICATION DATE	DELIVERY MODE
3 MONTHS	04/05/2007	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

Notice of this Office communication was sent electronically on the above-indicated "Notification Date" and has a shortened statutory period for reply of 3 MONTHS from 04/05/2007.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

mike.furr@bakerbotts.com
ptomail1@bakerbotts.com

55

Office Action Summary	Application No. 10/810,189	Applicant(s) GRAYSON ET AL.	
	Examiner Anh-Vu H. Ly	Art Unit 2616	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 28 March 2007.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-44 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-44 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on March 28, 2007 has been entered.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

2. Claims 1-4, 6-9, 11-14, and 16-44 are rejected under 35 U.S.C. 102(e) as being anticipated by Toth et al (US 2005/0053068 A1). Hereinafter, referred to as Toth.

With respect to claims 1, 6, 11, 28, 33, 38, 43, and 44, Toth discloses a method for providing a multicast service (Fig. 1), comprising:

maintaining multicast service information at an application server (Fig. 1, GGSN1 which including memory and processors for storing multicast state), the multicast service information describing a multicast service having an associated subscriber (Fig. 1, M1-M10), the multicast

Art Unit: 2616

service operates to deliver multicast content from a multicast source (page 3, 50th paragraph – a multicast source (MCS) is coupled to the GGSN and delivers for instance various multicast services such as streaming video and audio);

determining a cell supporting a user device associated with the subscriber (Fig. 1, M1-M3 coupled to RAN1);

initiating creating of a bearer path for the multicast service (page 4, 81st paragraph – SGSN informs the RAN that mobile station is joining the multicast group, so that the proper radio access bearer can be set up for the given multicast session); and

directing an enabler mobile to facilitate delivery of the multicast content to the user device using the bearer path (Fig. 1, RNC (not shown) of RAN 1 facilitates the delivery of multicast content to the user device using the bearer path. As known in the art, Radio Access Network (RAN) comprises radio network controller (RNC) and one or more base stations (BS). Herein, RNC is the enabler mobile), the enabler mobile located in the cell for which the enabler mobile enables delivery (Fig. 1, RNC of RAN 1 and BS of RAN 1, which is RAN, located in the same cell), the enabler mobile is distinct from a base station (Fig. 1, RNC of RAN 1 is different from base station of RAN 1).

With respect to claims 2, 7, 12, and 44, Toth discloses determining an enabler mobile corresponding to the cell supporting the user device; and instructing the enabler mobile to initiate creation of a radio access bearer (page 4, 81st paragraph – SGSN informs the RAN that mobile station is joining the multicast group, so that the proper radio access bearer can be set up for the

Art Unit: 2616

given multicast session. Herein, RAN is already determined as the RAN serving the mobile station).

With respect to claims 3, 8, 13, 30, 35, 40, and 44, Toth discloses communicating one or more parameters associated with the bearer path to the user device, the user device operable to use the parameters to receive the multicast content (page 4, 87th paragraph – SGSN notifies the mobile station of the radio access bearer and quality of service defined for the multicast session).

With respect to claims 4, 9, 14, 31, 36, and 41, Toth discloses establishing a multicast service level of the multicast service in accordance with the cell supporting the user device (page 4, 78th paragraph – GGSN decide the quality of service to use for the distribution of the multicast group based on information from the source, operator settings and/or the mobile terminal).

With respect to claims 16, 18, and 20, Toth discloses a method to provide a multicast service (Fig. 1), comprising:

receiving at an enabler device an instruction to create a radio access bearer for a multicast service and creating radio access bearer for the multicast service in response to the instruction (page 4, 81st paragraph – SGSN informs the RAN that mobile station is joining the multicast group, so that the proper radio access bearer can be set up for the given multicast session. As known in the art RAN comprises RNC and BS. Herein, RNC of RAN (enabler device) receives instructions and performs establishing a radio access bearer for a multicast service), the multicast service operates to deliver multicast content from a multicast source (page 3, 50th paragraph – a multicast source (MCS) is coupled to the GGSN and delivers for instance various multicast

Art Unit: 2616

services such as streaming video and audio); the enabler device assigned to a cell supporting a user device (Fig. 1, M1-M4 connect to RNCE of RAN 1 in a cell);

opening a PDP context for the radio access bearer (page 4, 79th paragraph- GGSN sends a multicast context activation message to the SGSN); and

directing an enabler device to facilitate delivery of the multicast content to the user device using the radio access bearer (Fig. 1, RNC (not shown) of RAN 1 facilitates the delivery of multicast content to the user device using the bearer path), the enabler device located in the cell for which the enabler mobile enables delivery (Fig. 1, RNC of RAN 1 and BS of RAN 1, which is RAN, located in the same cell), the enabler mobile is distinct from a base station (Fig. 1, RNC of RAN 1 is different from base station of RAN 1).

With respect to claims 17, 19, and 21, Toth discloses communicating one or more parameters associated with the radio access bearer to an application server (page 4, 76th paragraph – mobile terminal issues a membership report message which may contain information about he desired quality of service).

With respect to claims 22, 24, and 26, Toth discloses a method to provide a multicast service (Fig. 1), comprising:

activating at a multicast gateway support node a PDP context for a multicast service (page 4, 79th – GGSN sends a multicast context activation message to the SGSN), the multicast service facilitated by a plurality of enabler mobiles located in one or more cells (Fig. 1, RNCs of RAN1-RAN5 facilitate the multicast service. Herein, RNCs are enabler mobiles and they are

Art Unit: 2616

located in more than one cell. As known in the art, RAN comprises RNC and BS), the plurality of enabler mobiles operates to deliver multicast content from a multicast source (Fig. 1, RNCs of RANs operate to deliver multicast content from MCS), each enabler mobile of the plurality of enabler mobiles distinct from a base station (RNCs of RANs are different from Base Stations of RANs), each enabler mobile located in the cell for which the enabler mobile enables delivery of multicast content (Fig. 1, RNC of RAN1 located in same cell as M1-M4);

receiving an instruction to join a multicast tree for the multicast service and joining the multicast tree in response to the instruction (page 4, 86th paragraph – SGSN replies to the GGSN, whereby the SGSN, which including at least one processor, if not already a part, becomes a part of the multicast tree).

With respect to claims 23, 25, 27, 32, 37, 42, and 44, Toth discloses receiving the multicast content communicated using a plurality of data packets (Fig. 1, SGSN1 and SGSN 2 receiving GTPT7 and GTPT8); and duplicating the data packets to create duplicated data packets for each enabler mobile of the plurality of enabler mobiles (Fig. 1, SGSN duplicates GTPT7 for RAN 1 and RAN3).

With respect to claims 29, 34, 39, and 44, Toth discloses activating at a multicast gateway support node a PDP context for the multicast service (page 4, 79th – GGSN sends a multicast context activation message to the SGSN); and joining the multicast gateway support node to a multicast tree for the multicast service (page 4, 86th paragraph – SGSN replies to the

GGSN, whereby the SGSN, which including at least one processor, if not already a part, becomes a part of the multicast tree).

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

3. Claims 5, 10, and 15 are rejected under 35 U.S.C. 103(a) as being unpatentable over Toth in view of Rodriguez Gil, R. et al (WO 03/039024 A2). Hereinafter, referred to as Toth and Rodriguez Gil.

With respect to claims 5, 10, and 15, Toth discloses a multicast network (Fig. 1). Toth does not disclose determining a signal power; calculating power control information from the signal power; and initiating adjustment of the signal power according to the power control information. Rodriguez Gil discloses determining a signal power; calculating power control information from the signal power; and initiating adjustment of the signal power according to the power control information (Fig. 3, quality level is determined whether greater than level max or lesser than level min, if yes, then, power out is adjusted). It would have been obvious to one having ordinary skill in the art at the time the invention was made to include the feature of adjusting the power level in Toth's system, as suggested by Rodriguez Gil, to increase quality of service.

Response to Arguments

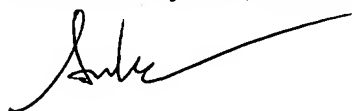
4. Applicant's arguments with respect to claims 1-44 have been considered but are moot in view of the new ground(s) of rejection.

Conclusion

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Anh-Vu H. Ly whose telephone number is 571-272-3175. The examiner can normally be reached on Monday-Friday 7:00am - 4:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Chi Pham can be reached on 571-272-3179. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

A handwritten signature in black ink, appearing to be 'S. Ly', is written over the signature line.

avl